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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.	112430.134US7
				Serial No.	09/993,739
				Applicant	Lee et al.
				Filing Date	Nov. 23, 2001
				Group	1616
				IDS Filed	
(37 CFR §1.98(b))					

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
M	5,605,713	02/25/97	Boltong			
M	5,152,836	09/12/91	Hirano			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
M	JP 06228011	12/12/94	Japan			Abstract only
	JP 7277712	10/24/95	Japan			Abstract only
	JP 63111875	05/17/88	Japan			Abstract only
	WO 92/02453	07/05/91	PCT WO			
	WO 94/02412	02/03/94	PCT WO			
	WO 94/04657	08/12/93	PCT WO			
	WO 94/25080	11/10/94	PCT WO			
	WO 95/08319	09/23/94	PCT WO			
	WO 96/36562	05/20/96	PCT WO			
	WO 97/17285	11/07/96	PCT WO			
	WO 92/001009	01/09/92	PCT WO			
	WO 94/20064	09/15/94	PCT WO			
✓	EP 0 268 463	05/25/88	Europe			
✓	EP 0 347 028	11/18/89	Europe			

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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket No. 112430.134US7
		Serial No. 09/993,739	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant Lee et al.	
		Filing Date Nov. 23, 2001	
		Group 1616	
(37 CFR §1.98(b))		IDS Filed	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)			
✓	Appel et al. "Recent Advances in Implants for Bone Growth Promotion" <i>Exp. Opin. Ther. Patents</i> 4:1461 (1994)		
	Athanasou et al., "Current Concepts Review Cellular Biology of Bone-Resorbing Cells" <i>J. Bone and Joint Surg.</i> 78A:1096-1112 (1996)		
	Hayes et al., "Augmentation of Cementless Femoral Stems to Improve Initial Stability Using a Remodelable Calcium-Phosphate Bone Material Substitute" <i>61st Annual American Academy of Orthopedic Surgeons Meeting</i> , New Orleans (02/94)		
	Jang "Advanced Polymer Composites" Chapter 1, Introduction, <i>The Materials Information Society</i> 95?		
	Norian Corporation, Product Information Sheet, "The Material Science of Norian SRS™, Skeletal Repair System™" 95		
✓	Rey et al., "Chemical Properties of Poorly Crystalline Apatites" <i>Phosphorus Res. Bull.</i> 6:67-70 (1996) abstract only		
EXAMINER <i>Milley</i>	DATE CONSIDERED <i>3/18/03</i>		
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant			



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Form PTO-1449
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Atty. Docket:
112430.134US7In re Application No.
09/993,739

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Lee et al.

Filing Date:
Nov. 23, 2001

Group: 1616

U. S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
M	4,684,673	Adachi	August 4, 1987	523	116
	5,262,166	Liu et al.	November 16, 1993	424	423
	5,281,265	Liu	January 25, 1994	106	35
	5,427,754	Nagata et al.	June 27, 1995	423	308
	5,516,532	Atala et al.	May 14, 1996	424	548
	5,565,502	Glimcher et al.	October 15, 1996	523	115
	5,665,120	Ohtsuka et al.	September 9, 1997	623	16
	5,691,397	Glimcher et al.	November 25, 1997	523	115
V	5,700,289	Breitbart et al.	December 23, 1997	623	16
V	5,782,971	Constanz et al.	July 21, 1998	106	690

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M	WO 94/08458	International WO	April 28, 1994	✓	

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M	Barton, et al., "Surface and Bulk Properties of Amorphous Calcium Phosphate", Colloid Interface Sci., 50th Proceeding Int'l Conf. 3:71(1976) CA:87:73954v
M	Basic, et al., "Electron Probe Microanalysis of Noncarious Enamel and Dentin and Calcified Tissues in Mottled Teeth", J. Dent. Res. 48: 131, Jan-Feb, 1969
M	Constanz, et al., "Skeletal Repair by in Situ Formation of the Mineral Phase of Bone", Science, 267:1976, (March, 1995.)

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Applicant: Lee et al.

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MFD: Lee 3/10/03

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INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		Applicant: Lee et al.	
		Filing Date: Nov. 23, 2001	Group: 1616

	Kinoshita, et al., "Reconstruction of Mandibular Discontinuity Defects in Dogs Using Autogenic Particulate Cancellous Bone and Marrow and Poly (L-lactide) Mesh, Fifth World Biomaterials Congress, May 29-June 2, 1996. Toronto, CA
	Labarthe, et al., "Sur La Structure Et Les Proprietes Des Apatites Carbonatees De Type B Phospho-Calciques," Ann Chem. 8:289, 1973.
	Nylen, et al., "Molecular and Ultrastructural Studies of Non-Crystalline Calcium Phosphates", Calc. Tiss. Res. 9:95, 1972.
	Otsuka, et al., "Effect of Particle Size of Metastable Calcium Phosphates on Mechanical Strength of a Novel Self-Setting Bioactive Calcium Phosphate Cement", Journal of Biomedical Materials Research, 29:25 (1995)
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	Posner, et al., "Synthetic Amorphous Calcium Phosphate and its Relation to Bone Mineral Structure", Bone Mineral Structure, 8:273 (1975)
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	Rey, et al., "Structural Studies of the Mineral Phase of Calcifying Cartilage", J. Bone Min. Res. 6:515, 1991.
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EXAMINER *M. O. Lee* DATE CONSIDERED *3/18/03*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Form PTO-1449
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U.S. Department of Commerce
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Filing Date
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Group 1616

U. S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
	Re. 33,161	Brown et al.	Feb. 6, 1990	423	308
	Re. 33,221	Brown et al.	May 22, 1990	423	308
	4,157,378	Tomlinson et al.	June 5, 1979	423	301
	4,612,053	Brown et al.	Sep. 16, 1986	706	35
	4,737,411	Graves, Jr. et al.	Apr. 12, 1988	428	403
	5,427,754	Nagata et. al	Jun. 27, 1995	423	308
	4,429,691	Niwa et. al	Feb. 7, 1984	128	92
	4,849,193	Palmer et. al.	Jul. 18, 1989	423	308
	4,880,610	Constantz	Nov. 14, 1989	423	305
	4,917,702	Scheicher et al.	Apr. 17, 1990	623	16
	4,938,938	Ewers et al.	July 03, 1990	423	308
	4,959,104	Iino et al.	Sep. 25, 1990	106	85
	5,034,059	Constantz	Jul. 23, 1991	106	161
	5,037,639	Tung	Aug. 6, 1991	424	57
	5,047,031	Constantz	Sep. 10, 1991	606	77
	5,053,212	Constantz et al.	Oct. 1, 1991	423	305
	5,085,861	Gerhart et al.	Feb. 4, 1992	424	78.17
	5,129,905	Constantz	Jul. 14, 1992	606	76
	5,149,368	Liu et al.	Sep. 22, 1992	424	602
	5,164,187	Constantz et al.	Nov. 17, 1992	424	423

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(Use several sheets if necessary)

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Filing Date Nov. 23, 2001 Group 1616

<i>M</i>	5,178,845	Constantz et al.	Jan. 12, 1993	423	305
<i>M</i>	5,279,831	Constantz et al.	Jan. 18, 1994	424	423
	5,286,763	Gerhart et al.	Feb. 15, 1994	514	7724
	5,336,264	Constantz et al.	Aug. 9, 1994	623	16
	5,470,803	Bonfield et al.	Nov. 28, 1995	501	1
	5,496,399	Ison et al.	Mar. 5, 1996	106	35
	5,522,893	Chow et al.	June 4, 1996	623	11
	5,525,148	Chow et al.	Jun. 11, 1996	106	35
	5,542,973	Chow et al.	Aug. 6, 1996	106	35
<i>M</i>	5,545,254	Chow et al.	Aug. 13, 1996	106	35

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Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
<i>M</i>	WO 94/02412	PCT WO	Jul. 7, 1995	✓	
	EP 0664133	Europe	Feb. 3, 1994	✓	
	JP 2-182261	Japan	Jul. 16, 1990		
	JP 5-305134	Japan	Jul 5, 1993	?	
<i>M</i>	JP 63170205 (Abstract)	Japan	July 14, 1988	✓	

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(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner's Initials

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Form PTO-1449
(REV. 8-83)

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<i>M</i>	Gao, T.J. "Established competence of Bioactive Composite Bone Substitute on the Healing of Diaphyseal Segmental Defects in Sheep," Fifth World Biomaterials Congress, May 29-June 2, Toronto, Canada. (g)
	Glimcher et al., "Recent studies of the mineral phase in bone and its possible linkage to the organic matrix by protein-bound phosphate bonds", Phil. Trans. R. Soc. Lond., B 304:479-508, 1984.
	Glimcher et al., "Recent Studies of Bone Mineral: Is the Amorphous Calcium Phosphate Theory Valid?" J. Crystal Growth, 53: 100-119 (1981).
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	Kamei et al., "Implantation of hydroxyapatite-bonded polymer," Fifth World Biomaterials Congress, May 29-June 2, 1996, Toronto, Canada.
	Kim et al., "Hyaluronan Based Biodegradable Scaffolds for Skeletal Tissue Reconstruction," Fifth World Biomaterials Congress, May 29-June 2, 1996, Toronto, Canada.
<i>✓</i>	Kinoshita et al., "Reconstruction of Mandibular Discontinuity Defects in Dogs using Autogenic Particulate Cancellous Bone and Marrow and Poly(L-lactide) mesh," Fifth World Biomaterials Congress, May 29-June 2, 1996, Toronto, Canada.

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Form PTO-1449
(REV. 8-83)

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	09/993,739

INFORMATION DISCLOSURE STATEMENT

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Applicant: Lee et al.

Filing Date	Group
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<i>M</i>	Labarthe et al., "Sur la structure et les propriétés des apatites carbonatées de type B phospho-calciques", Ann. Chem., 8:289 (1973).
	Ladizesky et al., "Hydrostatic Extrusion of Hydroxyapatite Polyethylene Composite", Fifth World Biomaterials Congress, May 29-June 2, 1996, Toronto, Canada.
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	Otsuka et al., "Effect of particle size of metastable calcium phosphates on mechanical strength of a novel self-setting bioactive calcium phosphate", J. Biomed Mat. Res., 29:25 (1995).
	Pool, "Coral chemistry leads to human bone repair", Science, 269:1772 (March, 1995).
	Posner et al., "Synthetic amorphous calcium phosphate and its relation to bone mineral structure", Bone Mineral Structure, 8:273-281 (1975).
	Rey et al., "The carbonate environment in bone mineral: a resolution-enhanced fourier transform infrared spectroscopy study", Calcif. Tissue Int., 45:157 (1989).
	Rey et al., "Structural studies of the mineral phase of calcifying cartilage", J. Bone Min. Res., 6:515 (1991).
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	Rizkalla et al., "Effect of Composition on Strength of Bioactive Composites," Fifth World Biomaterials Congress, May 29-June 2, 1996, Toronto, Canada.
	Saifullin, R.S., "Physical Chemistry of Inorganic Polymeric and Composite Materials", Chapter 1: Introduction, Ellis Horwood, New York. <i>95</i>
<i>✓</i>	Selmani et al., "Bioerodible Polyester Foams for Orthopaedic Tissue Culture," Fifth World Biomaterials Congress, May 29-June 2, 1996, Toronto, Canada.

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Atty. Docket	In re Application No.
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Termine et al., "Amorphous/Crystalline Interrelationships in Bone Mineral", Calc. Tiss. Res. 1, 8-23 (1967).

J
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V
Tung et al., "An intermediate state in hydrolysis of amorphous calcium phosphate", Calcif. Tissue Int., 35:783 (1983).

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609;
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE				Attorney Docket No.	112430.134US7	
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				Applicant	Lee et al.	
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(37 CFR §1.98(b))				IDS Filed		
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
<i>M</i>	4,429,691	02/07/84	Niwa et al.			
	4,698,375	10/06/87	Dorman et al.			
	4,713,076	12/15/87	Draenert et al.			
<i>✓</i>	4,722,948	02/02/88	Sanderson et al.			
	5,007,930	04/16/91	Dorman et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
<i>M</i>	EP 0 520 690	12/30/92	Europe <i>EP</i>			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
<i>M</i>	Boskey, Adele I., "Matrix Proteins and Mineralization: An Overview", Connect. Tiss. Res., 35, (1-4):357-363 (1997).					
	Butterman, et al., "The use of bone allografts in the spine", Clinic, Orthoped. Rel. Res., 324: 75 (1996).					
	Crowley, et al., "Prosthesis for primary total hip replacement", Int'l. J. Technol. Assess. Health Care, 11(4): 770 (1995).					
	Denissen et al., "Net-shaped hydroxyapatite implants for release of agents modulating periodontal-like tissues", J. Periodontal Res., 32:40-46 (1997).					
<i>✓</i>	Ducheyne, et al., "Advanced Series in Ceramics, Vol. 1.; "Introduction to Bioceramic Composites", L. Hench and J. Wilson, Eds World Scientific New Jersey. <i>c95</i>					
EXAMINER <i>M. Boskey</i>	DATE CONSIDERED <i>3/18/03</i>					
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U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
<i>M</i>	5,019,379	05/28/91	Domb et al.			
	5,049,157	09/17/91	Mittelmeier et al.			
	5,264,215	11/23/93	Nakabayashi et al.			
	5,286,763	02/15/94	Gerhart et al.			
<i>✓</i>	5,342,441	08/30/94	Mandai et al.			
	5,352,715	02/28/92	Wallace et al.			
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Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
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<i>M</i>	Friis, et al., "Fracture Toughness of Surface-Treated Carbon Fiber Reinforced Composite Bone Cement", <i>Fifth World Biomaterials Congress</i> , Toronto, Canada May 29-June 2, 1996.					
<i>M</i>	Hubbell, "Biomaterials in tissue engineering", <i>Bio/technology</i> , 13:56, (1995).					
<i>M</i>	Thissen et al., "Surface modification of bioresorbable polymers by plasma induced graft polymerization", <i>Fifth World Biomaterials Congress</i> , Toronto, Canada May 29-June 2, 1996.					
EXAMINER	<i>Herb Ley</i>		DATE CONSIDERED	<i>3/10/03</i>		
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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/993,739
		Filing Date	November 23, 2001
		First Named Inventor	Dosuk D. Lee
		Group Art Unit	1616
		Examiner Name	TBD
Sheet	13	of	13
		Attorney Docket Number	
		112430.134US7	

U.S. PATENT DOCUMENTS

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Examiner Signature		Date Considered	3/18/03
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Sub. For, PTO-1449 INFORMATION DISCLOSURE IN AN APPLICATION <i>(Use several sheets if necessary)</i>				Docket Number 112430.134US7	Application Number 09/993,739
				Applicant Lee et al.	
Sheet	1	OF	1	Filing Date November 23, 2001	Group Art Unit 1616

U.S. Patent Documents						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	5,650,176	Jul 22, 1997	Lee et al.	424	602	Dec 29, 1995
	5,676,976	Oct 14, 1997	Lee et al.	424	602	May 19, 1995
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EXAMINER <i>Mulley</i>	DATE CONSIDERED <i>3/10/03</i>
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.	